

PRODUCT DATA SHEET

DAVID WEBER OIL CO.

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Gibraltar Bio-Safe

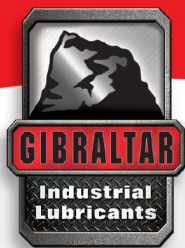
Premium Ultimately Biodegradable Hydraulic Oil

Gibraltar Bio-Safe hydraulic oils were developed to address ongoing environmental concerns related to mineral based fluids. Specifically created as a readily bio-degradable lubricant that meets the stringent performance requirements of today's hydraulic/circulating systems, **Gibraltar Bio-Safe** hydraulic oils incorporate the latest technology and oxidation inhibition system to provide a level of protection previously only available from synthetic fluids. Unlike common mineral-based hydraulic fluids, **Gibraltar Bio-Safe** hydraulic oils will not contaminate ground or water supply sources should leak or spills occur.

Gibraltar Bio-Safe hydraulic oils use the latest environmentally conscious additive and oxidation inhibitor systems employed in super-stabilized, high viscosity index, renewable base stocks to ensure the highest quality, premium anti-wear hydraulic oils. These high-lubricity base oils and environmentally responsible performance technologies provide maximum protection while minimizing the potential for ecological impact. Wherever a premium grade AW hydraulic oil is required in an application where ground soil or water contamination is of concern, **Gibraltar Bio-Safe** is the safe choice.

Gibraltar Bio-Safe hydraulic oils provide the following benefits:

- AST D-5864 PW1 Ultimately Biodegradable fluid
- ISO 15380 Environmentally Friendly
- Very high viscosity index
- Oxidation stability rivaling synthetics
- Less pump wear*



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SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

ASTM D5864 -Ultimate PW1
ISO 15380 (HEES/HETG)
OECD 301B
USDA Biobased Tested, New Carbon >50%

Vickers M-2950, I-286-S, 35VQ-25
US Steel 127
Denison HF-2, HF-1, HF-0

TYPICAL PROPERTIES

ISO GRADE	Method	32	46	68
Specific Gravity	ASTM D284	0.88	0.88	0.88
Viscosity, cSt @ 40°C	ASTM D445	30.5	43.1	62.8
@ 100°C		6.7	8.8	11.9
Viscosity Index	ASTM D2270	186	190	189
Pour Point, °C, max.	ASTM D97	-35	-33	-30
Flash Point, °C, min.	ASTM D92	230	240	245
Rust Prevention, Distilled/Sea	ASTM D665	Pass/Pass	Pass/Pass	Pass/Pass
Copper Corrosion Strip	ASTM D130	1A	1A	1A
4-Ball Wear Test scar dia., mm.	ASTM D4172	0.40	0.40	0.40
FZG Gear Test A/8.3/90	DIN 51354	11	11	11
Biodegradability	OCED 301B	>60%	>60%	>60%
	ASTM D-5864	Ultimate PW1	Ultimate PW1	Ultimate PW1

*as measured by ASTM D4172 4-Ball Wear Test